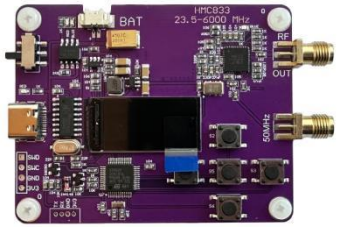
HMC833_6GHz RF Signal Generator User Manual



1 Product Introduction

※Output frequency range: 23.5-6000mhz
※Output power :+9dBm +6dBm +3dBm 0dBm
※minimum resolution:10khz
※Support frequency scanning function
※Minimum time interval for frequency scanning 10ms
※Minimum step for frequency scanning 10KHz
※Integrated lithium battery charging circuit and interface
※TYPE_C interface Support serial command control
※80mm*53mm*10mm　　50g

2 Instructions

1. Plug in the TYPE-C power cord or lithium battery, and turn on the power switch.
The startup interface will have a two second wait, and you can press any key to enter the settings interface.
There are three functions in total
Point Mode ： Fixed frequency output, change frequency and output power through buttons.
Sweep Mode ： Sweep frequency output, which can set the start frequency, stop frequency, single sweep frequency, and cyclic sweep frequency
Sweep Set:　　Step frequency setting for sweep frequency and interval time setting for adjacent frequency points
This product has a power-off automatic save function, which will automatically execute the work content before power-off after re powering on, without the need for repeated settings.

3 Serial Command Protocol

consisting of 9 bytes in total, baud rate: 9600.
Byte 0: 0X55
Byte 1: 0X55 fixed value, indicating point frequency.
Byte 2: high 8 bits of Point frequency integer part.
Byte 3: low 8 bits of Point frequency integer part.
Byte 4: high 8 bits of Point frequency decimal part.
Byte 5: low 8 bits of Point frequency decimal part.
Byte 6：Output power value（0X00 0X01 0X02 0X03）.
Byte 7：0X0d
Byte 8：0X0a
Example：100.23Mhz
0X550X55 0X00 0X64 0X00 0X17 0x03 0X0d 0X0a
555500640017030d0a

Over!